- 1. RULYANISEVA, V. I. LIFKOVICH, I. G.
- 2. USSR (600)
- 4. Public Health
- 7. Results of activities of a sanitary-epide iologic station. Sov.zdrav. No. 6 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

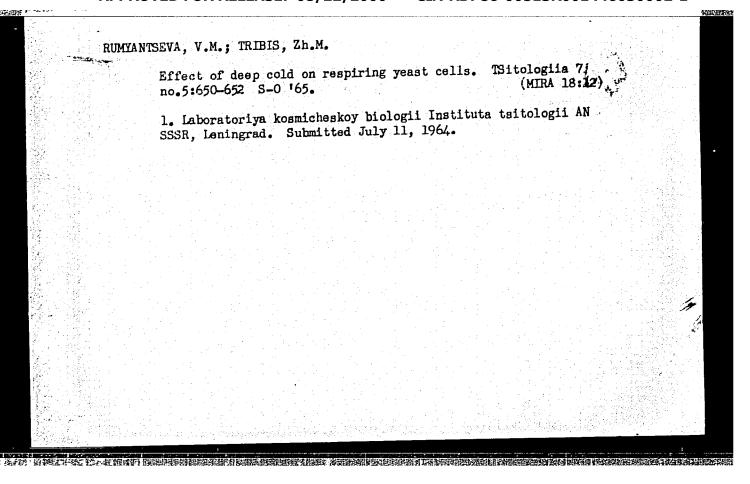
DOBYCHIN, B.D., professor; SHIPACHEV, V.G., professor; SINAKEVICH, N.A., professor; KOLCHENCGOV, P.D., dotsent; SENCHILLO, Z.T., dotsent; KAVRICHKOVA, R.M., assistent; STANKEVICH, M.V., assistent; FOMINA, V.M., assistent; RUMTANTSEVA, V.I., assistent.

In memory of K.P.Sapozh'ov. Khirurgiia no.8:86 Ag '53. (MLRA 6:9) (Sapozhkov, Konstantin Petrovich, 1871-1952)

Charges in yeast calls effor deep cooling in water, brewer's wort and glycerol. TSitologiia 5 no.3:323.331 My.Je '63.

(MIRE 17:5)

1. Laboratoriya kosmicusakay biologii Instituta to:tologii AN Sasa, lemingrad.



# RUMYANTSEVA, V.M.

USSR/Forestry - Forest Plants.

K-5

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5908

Author

Khritsteva, L.A., Ponomarenko, V.G., Rumyantseva, V.M.,

Kotlyuba, V.G.

Inst

: Kherson Agricultural Institute

Title

The Influence of Humic Acid on the Growth of Pines in Nurseries and Tree Plantations Set out in the Autumn on

the Lower Dnegr Sends.

Orig Pub

: Nauchn. zap. Khersonsk. s.-kh. in-t, 1957, No 6, 125-133

Abstract

: In order to explain the effect of humic acid on the quality of planted material, experiments were conducted in 1953

in the Golopristanskiy Forest Economy, Khersonskaya

oblast', in the nutrition of common pines which had not attained full growth. Sodium humate in a 0.001% concentration was used as a hunic fertilizer. It was applied by

Card 1/3

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sprinkling, on April 15 and May 15, and after this it was combined with nutrition by mineral fertilizers 1. The second of NFIA-RDP86-00513R001446030002-1" APPROVED FOR RELEASE the Second of NFIA-RDP86-00513R001446030002-1"

acid the output of first-class seedlings was higher, as was the growth of the pines in the nursery. The applications of humic acid and the high quality of the planted material were manifested in the growth increase. Seedlings of the first and second qualities gave the greatest growth increases. NP plus humic acid not only permits the accumulation of sol elements but enables them to pass into the roots and stems. It was determined that when pines are planted by the peat-nest method on sand dunes, adding humic acid increases the adaptability of all three sorts of seedlings; however, a greater effect was noted in the seedlings of the first sort. In the plantings the best growth of vegetative mass and roots derived from an intensification of the microbiological processes in the

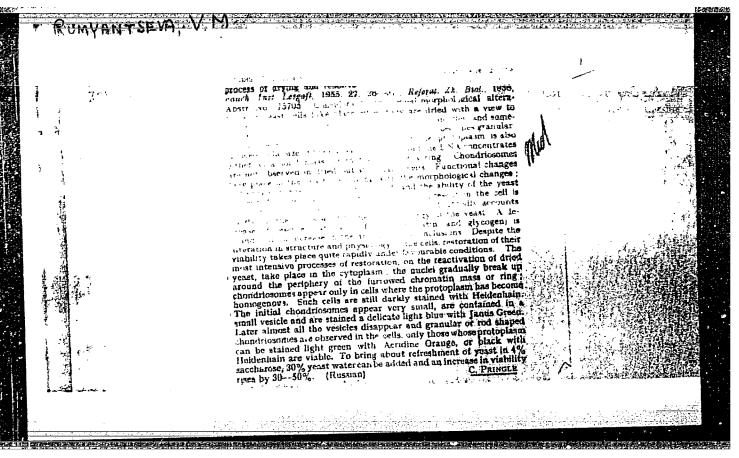
Card 2/3

USSR/Forestry - Forest Plants.

: Ref Zhur - Biol., No 2, 1958, 5908 Abs Jour

> zone around the roots; this in turn resulted from the direct influence of the humic acid on separate groups of microorganisms.

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# RUMYANTSEVA, V. M.

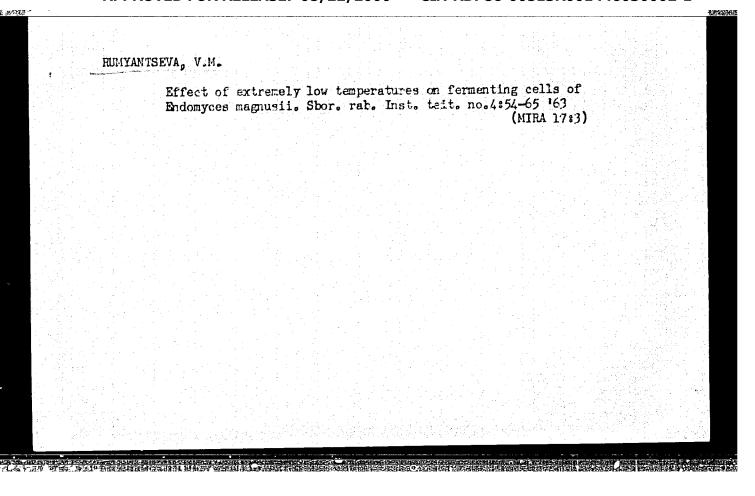
"The Effect of Deep Cooling on Free-Ranging Endomyces Magnusii Cells."
pp. 70

Institute of Cytology AS USSR Laboratory of Space Biology

II Nauchnaya Konferentsiya Instituta Tsitologii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962 88 pp.

JPRS 20,634

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"



ARISTOVSKAYA, T.V.; VLADIMIRSKAYA, M.Ye.; GOJLERBAKH, M.M.; KATANSKAYA, F.A.; KASHKIN, P.N.; KLUFT, S.Ye.; LOZINA-LOZINSKIY, L.K.; NORKINA, S.P.; RUMYANTSEVA, V.M.; SELIBER, G.L., prof.[deceased]; SKALON, I.S.; SKORODUMOVA, A.M.; KHETAGUROVA, F.V.; CHASTUKHIN, V.Ya.; PARSADANOVA, K.G., red.; GARINA, T.D., tekhn. red.

[Comprehensive laboratory manual on microbiology] Bol'shoi praktikum po mikrobiologii. [By] T.V.Aristovskaia i dr. Pod obshchei red. G.L.Selibera. Moskva, Vysshaia shkola, 1962. 490 p.

(MICROBIOLOGY—LABORATORY MANUALS)

(MICROBIOLOGY—LABORATORY MANUALS)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

86893

S/056/60/039/005/009/05: B029/B077

24.6900

AUTHORS: Barmin, V. V., Krestnikov, Yu. S., Pershin, I. I.,

Rumyantseva, V. P., Shalamov, Ya. Ya., Shebanov, V. A.

TITLE:

The Asymmetry in the Decay of  $\Lambda^{\circ}$  Hyperons Produced by Negative Pions With a Momentum of 2.8 Bev/c and Observed

in a Freon Bubble Chamber

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 5(11), pp. 1229-1231

TEXT: The distribution of decay products of  $\Lambda^{\circ}$  particles with respect to their production level is described by  $\Psi(\xi)$  d $\xi \sim (1+\alpha P\xi)$ d $\xi$ ; the asymmetry coefficient  $\alpha$  denotes the degree of non-conservation of parity during the decay of  $\Lambda^{\circ}$  particles; P denotes the average polarization of the hyperon over all directions of  $\Lambda^{\circ}$ , and the following relation is

valid too:  $\vec{f} = \begin{bmatrix} \vec{p}_{\pi prim} & \vec{p}_{\Lambda} \end{bmatrix} \vec{p}_{\pi decay}$   $\rightarrow \vec{p}_{\Lambda}$ ,  $\vec{p}_{\pi prim}$ , and  $\vec{p}_{\pi decay}$  are the unit vectors of the momenta of the  $\Lambda^o$  particle, the primary and the "decay pions". In general,  $\propto \vec{P}$  is calculated from the formula  $\alpha \vec{P} = 2(N_{\Lambda} - N_{\Psi})/(N_{\Lambda} + N_{\Psi})$ .

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86893

The Asymmetry in the Decay of  $\Lambda^{\circ}$  Hyperons 5/056/60/039/005/009/051 Produced by Negative Pions With a Momentum of B029/B077 2.8 Bev/c and Observed in a Freon Bubble Chamber

 $N_{\uparrow}$  and  $N_{\downarrow}$  denote the number of pions leaving the production level in an upward or downward direction. The values of dP at energies above 1 Bev energies. Therefore, the authors investigated the asymmetry in the decay of  $\Lambda$  hyperons which were produced on light nuclei by negative pions with a momentum of (2.8  $\pm$  0.3) Bev/c in a 17-liter Freon bubble chamber without a magnetic field. The measurements were made with a beam of negative mesons of the proton synchrotron of OIYaI (Joint Institute of Nuclear Research). For negative pions with a momentum of 2.8 Bev/c, A particles were produced mainly according to the reaction  $\pi^- + N \rightarrow \Delta^0 + K + n\pi$ , and a preliminary estimate yielded  $\tilde{n} \approx 1.5$ . The first examination of about 60,000 stereophotos showed about 1200 "forks" at the end of pion tracks, 183 A decays Freon (that is, by nuclei of C,F,Cl). 18 cases refer to production by a propane-xenon mixture, that is, by nuclei of H, C, Xe. The average momentum of the A particles used for the measurement was 650 Mev/c in the laboratory system. Results of &P measurement:

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The Asymmetry in the Decay of Produced by Negative Pions Wit 2.8 Bev/c and Observed in a Fr	h a Momentum or	B029/B077	009/051/ 009/د
Filling material Total number of the chamber of $\Lambda$ ° decay	r Number of negat s produced by the a \( \Lambda^{\circ}\) hyperon \( \frac{\text{emitted}}{\text{upward}} \) downwar	decay of	∝P lu-
		cing level	
Freon 165	67 95	3	-0.34±0.16
Xenon-propane 18	9 8	1	+0.12±0.47
Total number 183	76 103	4	-0.30±0.15

The systematic errors are below 20%. The value of  $\alpha P$  is most likely negative during the decay of hyperons which gives rise to 3-Bev negative pions. This could be caused by the change of sign of the polarization during the transition from ! Bev to higher energies of the negative pions produced. But the statistical accuracy of this investigation is not adequate for a definite statement. The authors thank A. I. Alikhanov, A. G. Meshkovskiy,

Card 3/4

86893

The Asymmetry in the Decay of A Hyperons
Produced by Negative Pions With a Momentum of
2.8 Bev/c and Observed in a Freon Bubble Chamber

S/056/60/039/005/009/051 B029/B077

and I. Yu. Kobzarev for a discussion of the results obtained, V.I. Veksler for making possible the experiments with the proton synchrocyclotron in Dubna, the operators of the synchrocyclotron, and several laboratory assistants of OIYaI. There are 1 table and 8 references: 2 Soviet and 6 US.

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July 2, 1960

Card 4/4

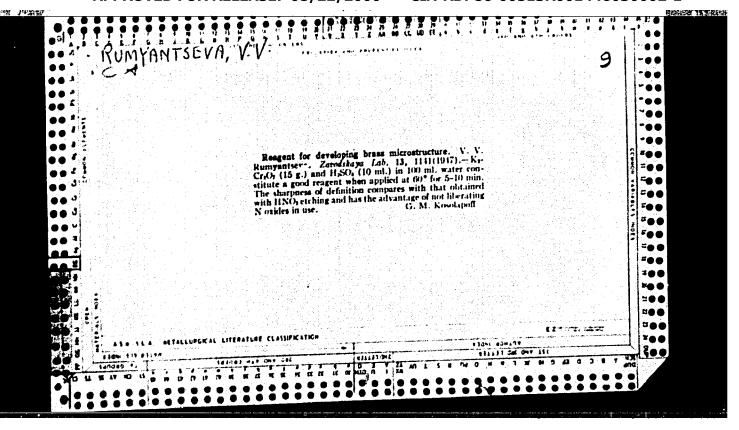
BARMIN, V.V.; KRESTNIKOV, Yu.S.; PERSHIN, I.I.; RUMYANTSEVA, V.P.; SHALAMOV, Ya.Ya.; SHEBANOV, V.A.

Asymmetry in the decay of A° -hyperons produced by 2.8 Bev./c

—mesons according to observations in a freen bubble chamber.

Zhur.eksp.i teor.fiz. 39 no.5;1229-1231 N \*160. (MIRA 14:4)

(Mesons—Decay)



YERSHOVA, I.N., kand. med. nauk; RUMYANTSEVA, V.V.

Pulmonary complications in patients with acute surgical diseases of organs of the abdominal cavity under various methods of anesthesia. Trudy Inst. in. N.V. Sklif. 9:214-217 163.

(MIRA 18:6)

1. Leningradskiy nauchno-issledovatel'skiy institut skoroy pomoshchi imeni Dzhanelidze.

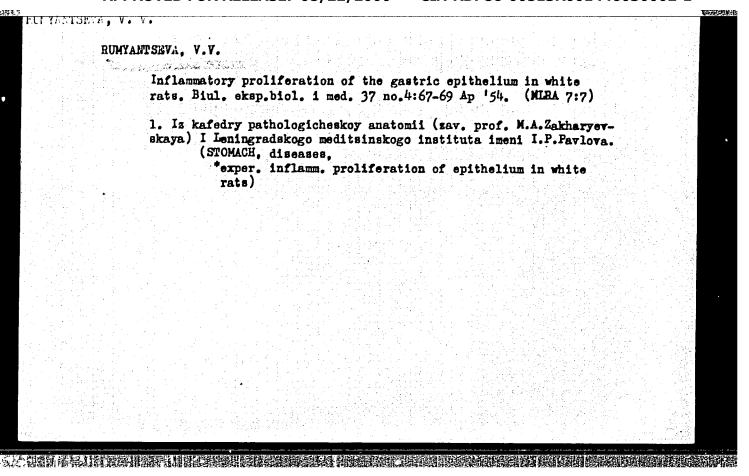
PALISHEV FAYA. R.I.. dots., RUMMANTERVA, V.V.

Effect of certain analgesics on the course of acute suppurative inflammation. Trudy iMI 2:85-97. 55 (MIEA 11:8)

1. Kafedra farmakologii (zav. - deystvitel'nyy chlen ANN SSR prof. V.V. Zakusov) i kafedra patologicheskoy anatomii (zav. - prof. M.A. Zakhar'yevskaya) Fervogo Leningradskogo meditsinskogo instituta imeni akademika I.P. Pavlova.

(ANALOZZICS)

(ANTIPHL'GITTICS)



MALAN'IN, M.I.; KRUPENINA, A.P.; CHERKASHINA, M.M.; RUMYANTSEVA, V.V.: SHVETSOV, G.F., red.; SERGEYEVA, N.A., red. 12d-va; GUROVA, O.A., tekhn. red.

[Concentration of diamond-bearing bedrock and sand] Obogashchenie almazosoderzhashchikh korennykh porod i peskov. By M.I.Malan'in i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 242 p. (MIRA 14:10) (Diamond mines and mining) (Ore dressing)

PADVA, G.D.; PEREKALIN, V.V.; RUMYANTSEVA, Ye.G.

Reactions of diketenes. Part 6: Interaction of diketene with some hydroxy compounds of the biphenyl series. Zhur.ob.khim. 34 no.1:102-105 Ja '64. (MIRA 17:3)

1. Leningradskiy pedagogicheskiy institut imeni A.I.Gertsena.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

BOGATTREV, Yu.M., kand.tekhn.nauk; RUNYANTSEVA, Ye.I., inzh.

Industrial use of induction heating in foreign countries. [Trudy]
TSNIITMASH 89:17-19 '59. (MIRA 12:4)

(Induction heating)

25(1)

PHASE I BOOK EXPLOITATION

**30V/1891** 

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostreyeniya

- Elektrotermicheskaya obrabotka i elektreiskrevoye uprochneniye detaley; [sbornik] (Electric Heat Treatment and Electrospark Hardening of Parts; Collection of Articles) Moscow, Mashgiz, 1958. 214 p. (Series: Its: [Trudy] km. 89) Errata slip inserted. 5,600 cepies printed.
- Ed.: I.Yu. Miloslavskiy, Engineer (Deceased); Ed. of Publishing House: I. Yu. Geller; Tech. Ed.: A. F. Uvarova; Managing Ed. for Literature on General Technical and Transport Machine Building (Mashgis): K.A. Ponomareva, Engineer.
- PURPOSE: This collection of articles is intended for engineering staffs of plants and scientific research institutes dealing with electric heating, electric heat-treatment, and electrospark hardening of metals.
- COVERAGE: This collection of articles presents the results of scientific research work carried out by the Department of TsNIITesh (Central Scientific Research Institute of Technology and Machinery) on electric heating in the field of high

Card 1/8

Electric Heat Treatment (Cont.)

sov/1891

and industrial-frequency heating and electrospark hardening of machine parts. The process of surface hardening, through hardening and tempering of steel and cast iron using induction-heating and electrospark methods, and the results of investigation of the effects of electric-heat treatment and electrospark hardening on the properties of steel and cast iron are described. A brief review of industrial applications of induction heating outside the Soviet Union are also presented. Various electric-heating and electrospark hardening equipment developed by TsNIITMash are described. The book was written for the 20th anniversary of the scientific research work of TsNIITMash, Department of Electric Heating.

TABLE OF CONTENTS:

Novikov, V. N., and Yu. M. Bogatyrev, Candidates of Technical Sciences. Work in the Field of Electric Heating and Electric Heat Treatment

The authors review the history of the development and application of electric heating and electric heat treatment of metals and describe new developments in the field. It is stated that for the past five years scientific and technological research work in the Department of Electric Heating was carried out in two principal directions: development of new production processes requiring high-temperature heating of

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30

Electric Heat Treatment (Cont.)

sov/1891

metals, and development of new equipment and modernizing old types of equipment and apparatus.

Bogatyrev, Yu.M., Candidate of Technical Sciences, and Ye.I. Rumyantseva, Engineer.
Industrial Applications of Induction Heating Abroad

Based on available non-Soviet literature on induction heating, the authors survey various applications of induction heating outside the USSR. They describe the use of induction heating in the surface hardening of metals, in heat-treating welded joints, and in metal forging. In the conclusion it is stated that although induction-heating equipment is discussed in non-Soviet literature, there is a lack of information on the physical metal-lurgy of the electric heat-treating process.

Vashmova, T.A., and V.P. Pleshachkova, Engineers. Induction Heat Treatment of Bridge Crane Parts

The induction heat treatment of wheels, brake drums, and toothed sleeves of a 5-ton capacity bridge crane is described. The equipment used, and the regimes of heating, quenching, tempering, and data on deformation are given. This method is successfully used at the "Stal'most" Crane Building Plant.

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Electric Heat Treatment (Cont.)

sov/1891

Novikov, V.N., Candidate of Technical Sciences. Investigating the Properties and Life of Induction Quench-hardened Rolls for Cold Rolling

The author recommends replacing chromium steel with a steel of higher

The author recommends replacing content as steel with a steel of higher fatigue resistance, development of new processes of electric heat treatment of rolls, and insuring the most efficient distribution of residual stresses in rolls. Concerning operation of rolls, the following rules are to be observed: periodical low-temperature annealing in oil, use of lubricant with a lower friction coefficient (maintaining the mechanical properties of the initial metal workpiece), determination and maintenance of the effective temperature of rolls, increase in the strip tension during rolling, insurance of stable regimes of draft by maintaining the same thickness of initial strips, reducing unit pressure of the work on the rolls, and decrease of amount of the relative drafts.

Bogatyrev, Yu.M., Candidate of Technical Sciences, and V.P. Pleshachkova, Engineer. Deformation of Surface-hardened Steel

The author discusses factors affecting the temperature of induction heating, the rate of cooling, the structure of the initial metal,

and the regime of low-temperature tempering in deformation of ring-type samples of medium-carbon construction steel. The effect of replacing

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Electric Heat Treatment (Cont.)

sov/1891

87

116

water by oil, and by other milder cooling agents, and the effect of the duration and the temperature of annealing are also discussed.

Klimochkin, M.M., Engineer. Surface Hardening of Nodular Cast Iron
The author presents the results of investigations on nodular cast iron
heated for hardening by high frequency (300,000 to 350,000 cycles)
current. He describes the structure and hardness of the surface, wear
resistance, fatigue strength, and resistance to crack formation, and
gives recommendations as to how to meet all these quality requirements.

Bogatyrev, Yu.M., and S.M. Gamazkov, Candidates of Technical Sciences.
Electric Tempering of Surface-hardened Parts by Sectional Herting
The article deals with the following: distribution of temperature
along and across specimens during electrical heating, the hardness
of specimens after surface hardening and induction tempering, the
structure of the hardened layer, and the residual stresses in it. The
author compares the data obtained with results from the common
method of heating specimens in a furnace and he stresses the pronounced
advantages of induction heating.

Card 5/8

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Electric Heat Treatment (Cont.)

sov/1891

Aleksandrov, V.V. (Deceased). Induction Heating-through of Large Section Steel Parts

131

The author describes methods and equipment for the heating-through of steel forgings and hot stamping blanks using induction heating and sectional heating of pipe. The latter constitutes the main subject of this paper. Detailed data on current, frequency, temperature, rate of heating, and thermal losses in heating various sizes of pipes are given.

Bogatyrev, Yu.M., Candidate of Technical Sciences. Structure and Properties of Steel Subjected to Electrical Through-heating 158

The author analyzes the method of induction through-heating of steel, the factors affecting uniform heating, and the cause of generation of thermal stresses. The investigation covered distribution of temperature along the cross section of the blank during electric heating, the structure of steel after treatment, and the mechanical properties of steel.

Card 6/8

Electric Heat Treatment (Cont.)

SOV/1891

Lagerkvist, S.A., Engineer, Low-voltage Equipment for Industrial Frequency Induction Heating

170

The author discusses various types of inductors, including flexible ones, for sectional heating of large parts using 50 cycles and up to 50 volts current. The simplicity of the construction of such inductors is indicated.

Ivanov, G.P., Candidate of Technical Sciences. Structure, Hardness, and Depth of a Layer Hardened by the Electrospark Method

The author discusses the mechanism of the electrospark hardening process and the effect of the current used and hardening time on the structure and depth of the layer. The dependence of hardness on the processing regimes and on the carbon content in processed steel is discussed and results of analysis of the structure are given. The author states that methods for mechanization of this process are now being developed.

Astaf'yev, S. S., Candidate of Technical Sciences. Electrospark Equipment Developed by TSNIITMash

204

Card 7/8

Electric Heat Treatment: (Cont.)

The author describes construction of two apparatus, the IAS-2M and IAS-3M developed by TaNIIIMash for electrospark hardening of steel surfaces.
Technical specifications for both are given, and directions for operating the machines and results that can be obtained with them are included.

AVAILABLE: Library of Congress

Co/fal 8-3-59

Card 8/8

AUTHOR: Kleshchevnikova, S.I., Pokrovskiy, Ya.Ye. 57-8-1/36 Rumyantseva, Ye.I.

TITLE: Preparation of Pure Si by the Thermal Decomposition of

Silane (Polucheniye chistogo kremniya termicheskim razlozheniyem

silana)

RUMYANTSEVA, YE.I.

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 8, pp. 1645-1648 (USSR)

ABSTRACT: The method as well as the apparatus are described, Monosilane

was produced by means of the disproportionation of triethoxisilane in presence of metallic sodium and was subjected to thermal decomposition after a simplest kind of purification. The decompsition was carried out on a tantalum band which was heated with current to 950°. The bark of polycrystalline Si forming on this occasion can be separated from tantalum in form of a bar. The bar can be used for a zonal recrystallization. The monocrystals obtained after a zonal melting of the Si bars without crucibles have a specific electric resistance of up to 50 0hm per cm and a life of the electrons not in equilibrium of up to 300 asec.

There are 2 figures and 2 Slavic references.

ASSOCIATION: Moscow State University im. M.V. Lomonosov (Moskovskiy gosudarst-

vennyy universitet imeni M.V. Lomonosova)

AVAILABLE: Library of Congress

Card 1/1

POKRGVSKIY, Ya.Ya.; KLESHCHEVNIKOVA, S.I.; RUMYANTSEVA, Ya.I.

Some improvements in the production of pure silicon by the thermal decomposition of silane. Fiz. tver. tela 1 no.6:999-1001 Ja '59.

(MIRA 12:10)

1.Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul'tet.

(Silicon) (Silane)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

S/191/62/000/012/007/015 B101/B186

AUTHORS:

Volkov, V. L., Kafyrov, M. I., Kleshchevnikova, S. I.,

Rumyantseva, Ye. I.

TITLE:

Synthesis of triethoxy silane

PERIODICAL:

Plasticheskiye massy, no. 12, 1962, 28-29

TEXT: Triethoxy silane is synthesized by bringing trichlorosilane into reaction with ethanol at 25-30°C without using a solvent. The following conditions must be satisfied: (1) In the reaction, the component ratio must be strictly adhered to. The volume ratio indicated is: SiHCl<sub>3</sub>:C<sub>2</sub>H<sub>5</sub>OH=1:1.75.

(2) The water content of the ethanol must be less than 0.2%. (3) The hydrogen chloride formed must be evacuated rapidly from the reaction vessel. This was secured by passing through nitrogen at a rate of 1-1.5 l/min per liter of reacting liquid, by increasing the nitrogen rate to 3-4 l/min when the introduction of components was completed, and by heating to 50°C when the Cl content of the reaction mixture had reached 7%. The flow of nitrogen was stopped when the Cl content dropped below

Card 1/2

Synthesis of triethoxy silane

S/191/62/000/012/007/015 B101/B186

1%. The product was rectified. Yield 85%. The losses in SiH(OC<sub>2</sub>H<sub>5</sub>)<sub>3</sub> are due to the entrainment of reaction products in the HCl and N<sub>2</sub> currents ( $\sim$  5%), to side reactions (7-10%) and to rectification losses ( $\sim$  1%). There are 1 figure and 1 table.

Card 2/2

1.5193

5/191/63/000/001/006/017

B101/B186

AUTHORS:

Kleshchevnikova, S. I., Levina, Ye. F., Rumyantseva, Ye. I.

TITLE:

Purification of tri- and tetraethoxysilanes from chlorine-

containing compounds

PERIODICAL:

Plasticheskiye massy, no. 1, 1963, 25-26

TEXT: Chlorine-substituted silanes which readily hydrolyze, reducing the stability of the finished product and corroding the apparatus, are formed as by-products in the synthesis of tri- and tetraethoxysilanes from chlorosilane and ethanol. To eliminate them, it is suggested that bubbling with N<sub>2</sub> which removes most of the resulting HCl should be followed by bubbling with anhydrous NH<sub>3</sub> gas. Triethoxysilane with a chlorine content of 1.2-1.5% was bubbled in a mixer with NH<sub>3</sub>, taking 20-25% more NH<sub>3</sub> than required to bind the Cl. Amino compounds were formed as follows:

HSi( $0C_2H_5$ )<sub>3-n</sub>Cl<sub>n</sub> + nNH<sub>3</sub>  $\longrightarrow$  HSi( $0C_2H_5$ )<sub>3-n</sub>(NH<sub>2</sub>)<sub>n</sub> + nNH<sub>4</sub>Cl. The reaction Card 1/2

Purification of tri- and ...

S/191/63/000/001/006/017 B101/3186

mixture remained in the vessel for 1.5-2 hrs to polymerize the amine precipitate, and was then filtered. The filtrate was fractionated. The fraction boiling at  $131-134^{\circ}$ C consisted of pure  $HSi(C_2H_5)_3$  and contained neither chlorine nor nitrogen. Commercial tetraethoxysilane containing 0.5% Cl was purified in the same manner.

Card 2/2

KLESHCHEVNIKOVA, S.I.; DUBROVSKAYA, G.A.; RUMYANTSEVA, Ye.I.

Reaction of triethoxysilane with ethyl slcohol. Plast. massy (MIRA 18:6)

		Study of the reaction of Plast. massy no.4:21-24	triethoxysilene with 165.	hydrogen	chloride. (MIRA 18:6)	
		스타이스 그는 경우라는 얼룩됐다.			18 등 기계	
		네 그 그리다 회사들 기를 받았다				
	막 살고 됐다.					사항 설문
		토막 입내 이번 뒤가겠다. 등원 회사들은				
		그리는 그 이렇다 살아 하다일까요?				
		보다 그리고 무리 전환의 활 분석 편화	보고, 보이 그 자동하게 되고 하고 있습니다. 그는 것 같 하게 되고 하는 보다 그 사용을 있는 하는 것			
			아이들이 불어를 다 그리지 않는다.			
		그리고 하고 있는 생생이 있을까요? 하였다.				
- 이 사이 사용 등을 위한 경우를 받는 것으로 하는 것으로 함께 되었다. 이 사용 하는 것으로 되었다. 이 사용 수 있는 것 같아 보는 것 같아. 		되었다. 하나 하나를 먹었다. 휴가 하나 얼마				
		게 가는 경기가 뭐고 <u>요. 그리고 싶다.</u>				dhin sadi

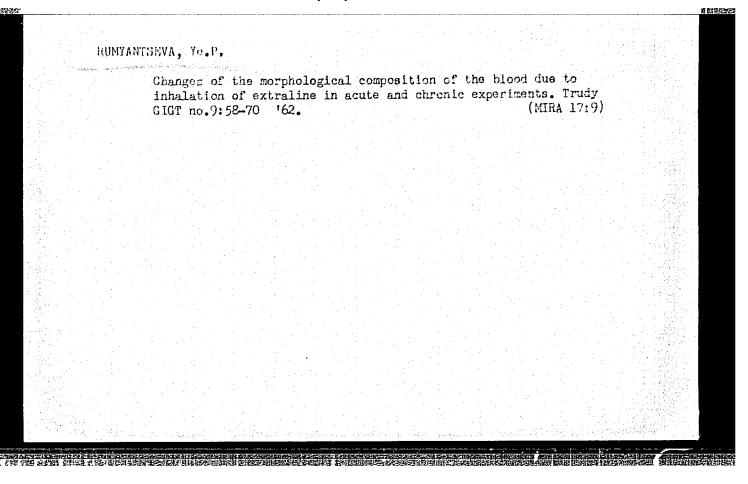
YELISEYEVA, L.Ye.; ZHOROV, Yu.M.; PANCHENKOV, G.M.; RUMYANTSEVA, Ye.I.

Kinetics of the disproportionation of triethoxysilane, Plast.
massy no.5118-19 '65. (MIRA 18:6)

L 1'(216-66 EWT(m)/EWP(J) RM ACC : IR: AP6003640 SOURCE CODE: UR/0078/65/010/010/2359/2362 20 AUTHOR: Vekhov, V. A.; Dudnik, Ye. P.; Rumyantseva. ORG: none TITLE: Hydrolysis of tetraethoxysilane SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 10, 1965, 2359-2362 TOPIC TAGS: hydrolysis, silane, hydrochloric acid, ammonia ABSTRACT: The hydrolysis of tetraethoxysilane was studied at 24 and 50°C in the presence of small amounts of water (tetraethoxysilane : : water = 25:1) at HCl concentrations of 2.66 to 1000 mg-mol/1 and NH3 concentrations of 0.182 to 0.82 g-mol/1. The composition of products and the kinetics of hydrolysis were studied by chromatographically determining the alcohol yield in samples withdrawn from the reaction at different times and analyzing the precipitate of the reaction products. The following reaction is given for the hydrolysis: Si  $(OC_2H_6)_4 + 3H_2O \xrightarrow{HOI} 3C_2H_6OH + Si (OH)_5C_2H_6O$ The reaction does not go to completion in either the acidic or the al-UDC: 542.938 : 546.287 Card 1/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

Const NH <sub>3</sub> co	ant with toncentrati	time. How ion and wi	vever, the rith rising to	rmation of edy the unchangerate constant temperature. De 6.3 kcal/m	ing value	of its rat s with HCl	e and
SUB CO	ODE: 07/	SUBM DAT	E: 30Ju164/	ORIG REF:	004/ 0	TH REF: 000	
ard 2/	$\frac{2}{2}$						



BONGARD, E.M.; FAYERMAN, I.S.; RUMYANTSEVA, Ye.P.

Garonic intoxication with methyl chloride. Trudy GICT no.9:101109 '62.

(MIRA 17:9)

had Tmidy	oxidation of sulfur dioxide in a suspended catalyst LTI no.54:53-62 '59. dioxide) (Oxidation) (Catalysis)

TRABER, D.G.; RUMYANTSEVA, Ye.S.; MUKHLENOV, I.P.

Effect of the perticle size of a manadium catalyst in a suspended bed on its activity during the oxidation of sulfur dioxide. Trudy LTI no.54:47-52 '59. (MIRA 13:8) (Sulfur dioxide) (Oxidation) (Catalysis)

1205

57000 5/080/61/034/006/001/020 D247/D305

AUTHORS:

Mukhlenov, I.P., Traber, D.G., Rumyant seva, Ye.S.,

and Pomerantsev, V.M.

PITLES

Hydrodynamics of a fluidized catalyst bed under high

pressure

PERIODICAL: Znurnal prikladnoz khimii, v. 34, no. 6, 1961,

1181 - 1185

TEXT: With a continuous expansion of the chemical industry and increased demands for natural and synthetic gases, it has been found necessary to study more closely conversions and syntheses, based on monoxide, carried out in a fluidized bed, and to confirm the existing hydrodynamic equations for processes conducted under pressures exceeding 70 atm. in order to obtain data for more effieient construction of plants. The investigations were carried out with a gas mixture normally used in methanol synthesis under pressures of 1 230 atm. temperature 15-2000 using spherical gra-

Cara 1/:

**24,000** S/080/61/034/006/001/020 D247/D305

Hydrodynamics of a ...

nules of catalyst of variable particle size, 0.75 - 4.5 mm. The experiments considered of measuring, under different conditions, the hydraulic resistance of the fluidized bed,  $\Delta p$ , determining critical velocity of gas corresponding to the transition of the sould from stationary to fluidized state, apparent gas velocity  $W_{f'v}$  being calculated instead of real  $W_f$ , and determining the specific height of the fluidized bea  $H_{sp}$  in terms of a ratio of heights of bed in fluidized. H. and stationary,  $H_o$ , states. Under high pressures  $\Delta r$  has been found to exceed, in all cases, the ratio of the weight of the contact mass to the cross sectional area of the apparatus by 20 - 35 % and the final equation for  $\Delta p$  has been established as follows:

$$\Delta s = cH_o(\gamma_T - \gamma_r)(1 - \epsilon_o)$$

( $\gamma_T$   $\gamma_S$  and  $\gamma_\Gamma$   $\gamma_G$ ) where  $\gamma_S$  and  $\gamma_G$  - density of solid and gase-ous phases:  $\epsilon$  and  $\epsilon_G$  - porosity of fluidized and stationary beds, Card 2/4

**24000** \$/080/61/034/006/001/020

Hydrolynamics of a ...

end a the obefficient of resistance of the fluidized bed. For pressures of 50 - 230 atm the coefficient c showed a slight increase corresponding to 1.2 - 1.35 depending upon the particle size of the solid. The critical velocity of gas has been found to decrease with the increasing pressure, the affect being more pronounced for larger particles (d = 3.5 mm). The experimental results were worked out according to A.I. Rychkov, and N.A. Shakhova (Ref. 3: 1.F.Zh. II, 9, 92, 1957) and who used equations (Ref. 6: 0.M. Todes, and A.K. Bondareva. Khim. nauka i prom. II, 2, 223, 1357) [Abstractor's note: Equations not given] and for lower pressures showed good agreement with the latter. For higher pressures 50 - 230 ats. Pomerantser submitted the following equation

 $R_{\frac{1}{2}} = 1.3 Ar_{\frac{0}{2}}^{0.5}$ ,

where Reg - Reynolds namber and.

Card 3/4

Hydrodynamics of a a .

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w. B de

 $Ar_{e} = (1 - \varepsilon_{o}) \frac{\varepsilon d_{e}}{v^{2}} \frac{\gamma_{g}}{\gamma_{g}} \frac{\gamma_{g}}{\gamma_{g}}$ 

Archimises number and desequivalent thannel diameter (m) describined by Rytha as method. Describing viscosity thefficient (m2/sec), a stelleration due to gravity. This equation is represented graphically. The experiments also established that intensive working of the outer mass is achieved for gas velocities corresponding to Heart and a sunder such conditions the solid mass is subjected that intensive while still maintaining a sufficiently high concentration of catalyst in the working space. There are 9 limited, tuble and o Soviet-block references.

SUBMITTED: November 29, 1966

Card 4/4

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

MUKHLENOV, I.P.; TRABER, D.C.; SARKITS, V.B.; RUMYANTSEVA, Ye.S.;
MIKHALEV, M.F.; SHMEKKER, Ya.M.; CHERNYAK, M.A.

Testing an apparatus for the oxidation of concentrated sulfur sioxide in a fluidized catalyst bed. Khim.prom. no.11:770-775
N '61.

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta, i
Leningradskiy zavod "Krasnvy khimik".

(Chemical apparatus)
(Sulfur dioxide)
(Gatalysis)

ANOKHIN, V.N.; TRAHER, D.G.; MUKHLENOV, I.P.; RUMYANTSEVA, Ye.S.

Conversion of carbon monoxide in a suspended catalyst bed. Trudy
(HIRA 13:8)

(Carbon monoxide) (Catalysis)

(Carbon monoxide) (Catalysis)

RUMYAN 151 NUKHLENOV.	I.P.; THADAR, D.S.
	prom. no.1:43-44 38-F 27.
	l. Leningradskiy tekhnologichskiy institut imeni Lensoveta. (Fluidization)
[ 연구 [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	

MUKHLENOV, I.P., kandidat tekhnicheskikh nauk; TRABER, D.G., kandidat tekhnicheskikh nauk; RUMYANTSEVA, Ye.S.

Using a suspended layer of the catalyst in the oxidation of sulfur dioxide. Khim.prom. no.8:457-460 D '55. (MIRA 9:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Sulfur dioxide) (Catalysts)

FEDOROVA, N.I.; TAV'YEV, B.M.; RUMYANTSEVA, Ye.V.

Studies on the duration of postvaccinal immunity in Q fever.
Zhur.mikrobiol.epid.i immun. 31 no.9:30-32 S '60. (MIRA 13:11)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN
SSSR 1 Saratovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

(Q FEVER)

#### CIA-RDP86-00513R001446030002-1 "APPROVED FOR RELEASE: 08/22/2000

FEDOROVA, N.I.; TAV'YEV, B.M.; RUMYANTSEVA, Ye.V.

Specific vaccination against Q fever. Zhur. mikrabiol. epid. i imaun. 29 no.8:75-80 Ag 158.

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR i Saratovskoy oblastnoy samitarno-epidemiologicheskoy stantsii.
(Q FEVER, prev. & control. vacc. (Rus))

ULIVANOV, A.I.; KAZAKOVA, T.I.; RUMYANTSEVA, Ye.Ya.

Interaction of cerium (III) sulfate with orthophosphoric acid
and its sodium salts in an aqueous solution at 250C. Iev. AN
and its sodium no.lli1910-1920 N \*62.

1. Institut obshchey i neorganicheskoy klimii im N.S. Kurnakova
AN SSSR.

(Cerium sulfate) (Phosphoric acid)

PARSHUTIN, G.V., prof.; RUMYANTSEVA, Ye.Yu., nauchnyy sotrudnik; TESTOV, L.L., nauchnyy sotrudnik; YEVSEYEV, N.K., zootekhnik; NOVIKOVA, A.N., zootekhnik

Effect of some amino acids on sex formation in fowl. Zhivotnovodstvo 24 no.6:89-93 Je 162. (MIRA 17:3)

1. Vsesoyuznyy institut fiziologii i biokhimii sel'skokhozyaystvennykh zhivotnykh (for Parshutin, Rumyantseva, Testov). 2. Sovkhoz "Gorki - II" Moskovskoy oblasti (for Yevseyev, Novikova).

RUMYANTSEVA, Z., kandidat ekonomicheskikh nauk.

Civil aviation in Canada. Grazhd.av. 13 no.2:38-39 F '56.
(MLRA 9:5)

(Canada--Aeronautics, Commercial)

HUMYANTSEVA, Z., kand. ekon.nauk.

Linear programming. Grazhd. av. 15 no.8:35-37 Ag '58. (HIRA 11:9)

(Linear programming) (Aeronautica, Commercial)

AUTHOR:

Ruryantseva, Z., Candidate of Economic Sciences

Linear Programming (Lineynoye programmirovaniye)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 8, pp 35-37 (USSR)

ABSTRACT:

The article deals with the problem of economy in utilization of various aircraft on routes of various lengths. The problem acquires a specific importance with the introduction into service of new and expensive jet equipment. Specific operational characteristics such as speed, range, payload, efficiency, differ considerably from one type of aircraft to another and lead to different economic effects if operated on the same route. The author then discusses a mathematical method of planning air services in foreign countries known as "linear programming," which is a method for determining the minima and maxima of certain linear functions of a set of factors. The discussion is illustrated by analysis of a concrete example of an assumed operational unit serving a number of routes differing in length, with different number of stopovers and volume of traffic, by a number of different aircraft types. Through a number of steps the optimum assignment of aircraft to the routes is arrived at. The

Card 1/2

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Linear Programming

SOV/84-58-8-52/59

solution of the problem is carried out with the help of a set of tables. The author points out, however, that for solution of more complex problems involving many routes and aircraft types, calculating machines are necessary. Seven tables accompany the text.

Card 2/2

RUMYANTSEVA, Z. A.

Mbr., Lab. Organic Chem. im. Zelinskiy, Moscow State Univ., -1941-.

Mbr., Inst. Organic Chemistry, Dept. Chem. Sci., Acad. Sci., -1947-.

"Hydrogenation of Butylbenzene Isomers by Means if Calcium-Ammonium," Zhur. Obshch. Khim.,

15, No. 4-5-, 1945;

"The Catalytic Hydrigenation of the Cyclopentane Hydro-carbons with Ring Splitting:

VII. Hydrogenation of Methylcyclopentane in the Presence of Platinized Charcoal or Nickel

Deposited on Alumina," Iz. Ak. Nauk, SSSR, Otdel. Khim. Mauk, No. 2, 1947.

RUMYANTSEVA, Z. A. Cand. Chem. Sci.  Dissertation: "Catalytic hydrogenation of Cyclopentane Hydrocarbons with Ring Splitting." Inst of Organic Chemistry, Acad Sci USSR, 30 Jan 47.					
SO: Vec	chernyaya	Moskva, Jan	, 1947 (Project	#17836)	
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					가 있는 것이 되는 것이 되면 함께 함께 되었다. 같이 하는 것이 같은 것을 보고 있습니다.
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RUMYANTSEVA, Z. A.

PA 8T6

USSR/Chemistry - Catalysts, Hydrogenation Hydrocarbons

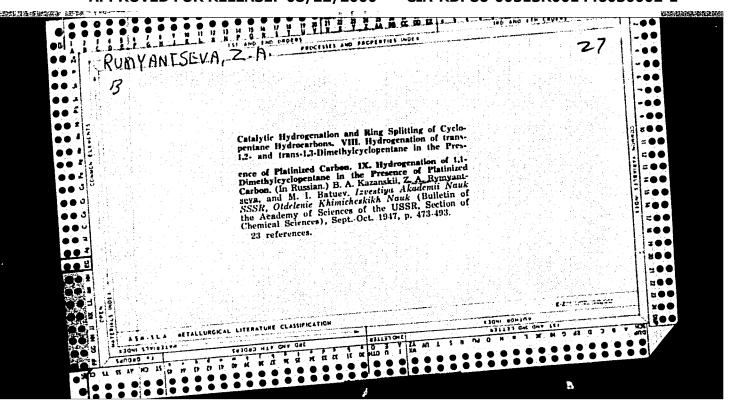
Feb 1947

"The Catalytic Hydrogenation of the Cyclopentane Hydrocarbons with Ring Splitting," B. A. Kazansky, Z. A. Rumyantseva, 8 pp

"Izv Ak Nauk Khim" No 2

Hydrogenation of methylcyclopentane in the presence of platinized charcoal or nickel deposited on alumina.

8T6



RUMYANTSEVA, Z. A.

USSR/Chemistry - Hydrogenation Chemistry - Hydrocarbons Ser/Cct 1947

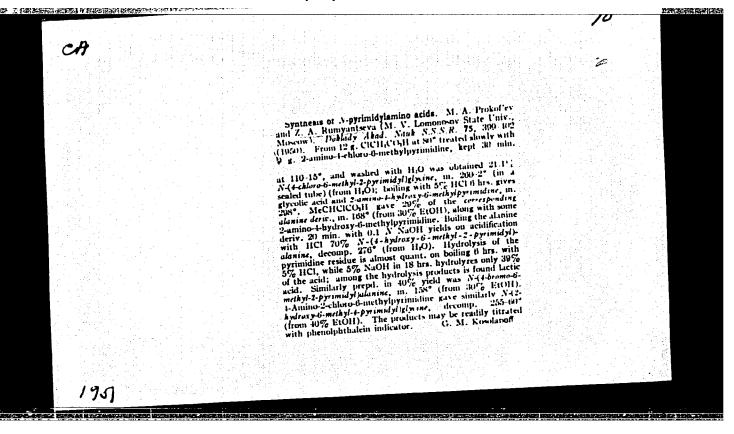
"Catalytic Hydrogenation of Cyclopentanic Hydrocarbons When the Cycle Is Interrupted, IX," E. A. Kazanskiy, Z. A. Rumyantseva, M. I. Batuyev, Inst Org Chem, Acad Sci USSR, 10 pp

"Izv Akad Nauk SSSR, Otd Khim Nauk" No 5

Discusses dydrogenation of 1, 1-dimethylcyclopentane in presence of platinized carbon.

FA 53T5

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"



MUMYAN TSEVAIZA.

USSR Chemical Technology. Chemical Products and Their Application

I-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31896

Author: Rumyantseva Z.A.

Inst : Academy of Sciences Tadzhik SSR

Title : Investigation of Petroleum of the Kzyl-Tumshuk

Deposit

Orig Pub: Tr. AN TadzhSSR, 1955, 41, 37-43

Abstract: A study was made by the usual methods of the

groupwise chemical composition of different fractions of high-sulfur Tadzhik petroleum. The gasoline-ligroin fractions are almost absent,

Card 1/3

USSR Chemical Technology. Chemical Products and Their Application

I-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31896

their total yield being of about 4% on the basis of the petroleum, while the yield of kerosene is of about 6%. The wide gasoline-kerosene fraction of the petroleum contains (in % by weight): aromatic 39, methane series 33, naphthenic hydrocarbons 29. Octane ratings of the gasoline fractions are low. Mazuts do not meet the standards in viscosity and S-content. Oil fractions contain much S, solid paraffins, have a high setting point, specific gravity and a low viscosity index. The sulfur compounds of the petroleum appertain, essentially, to the class of heterocyclic compounds and

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USSR /Chemical Technology. Chemical Products and Their Application

I-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31896

the disulfides. The petroleum gives a large amount of bitumenum residues, soft and blown, the yield being, respectively, 47 and 30%, on the basis of the petroleum.

Card 3/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

#### CIA-RDP86-00513R001446030002-1 "APPROVED FOR RELEASE: 08/22/2000

Rumyan Tseva. E. A.

USSR /Chemical Technology. Chemical Products and Their Application

T-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31949

Rumyantseva Z. A., Gilimzanova F.M., Author

Sterin Kh. Ye.

Academy of Sciences Tadzhik SSR Inst

Specific Hydrocarbon Composition of High-Sulfur Title

Gasoline of Direct Distillation

Tr. AN TadzhSSR, 1955, 41, 45-58 Orig Pub:

The combined method of Landsberg-Kazanskiy for Abstract:

the study of specific hydrocarbon composition is applied in the study of gasoline obtained by

Card 1/3

USSR /Chemical Technology. Chemical Products and Their Application

I-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31949

direct distillation of Tadzhik petroleum from the Kzyl-Tumshuk deposit. Forty two specific hydrocarbons have been identified, 10 of which were determined quantitatively; 4 specific hydrocarbons and a mixture of cyclopentane and 2,2-dimethyl butane, have been isolated, and the quantitave content of these hydrocarbons in the gasoline has been determined. As a result of adsorptive separation there have been isolated from the gasoline 15% of aromatic hydrocarbons, including about 5.5% toluene. It was found that the composition of the gasoline comprises mostly low-branching paraffin cyclopentane and cyclo-

Card 2/3

USSR /Chemical Technology. Chemical Products and Their Application

I-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31949

hexane hydrocarbons with short, unbranched side chains. Sulfur compounds are concentrated in the aromatic portion of the gasoline.

Card 3/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

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15-57-1-844

Referativnyy zhurnal, Geologiya, 1957, Nr 1, Translation from:

pp 132-133 (USSR)

AUTHORS:

Rumyantseva, Z. A., Valiulina, F. M., Chayko, V. P.

TITLE:

The Chemical Nature of High-Molecular Components in High-Sulfur Petroleum. Report I. Analysis of the Components of Petroleum in the Kzyl-Tumshukskoye Mestorozhdeniye (Field) (O khimicheskoy prirode vysokomolekulyarnykh komponentov vysokosernistykh neftey. Soobshcheniye 1. Analiz komponentov nefti

Kzyl-Tumshukskogo mestorozhdeniya)

PERIODICAL:

Tr. AN TadzhSSR, 1955, Vol 41, pp 59-68.

ABSTRACT:

The authors have investigated the ligroin-kerosene and the butyric fractions of the high-kerosene and high-cosmoline oils from the Kzyl-Tumshukskoye field (Tadzhikistan) and the separated benzine fraction of the hydrocarbon part. It was determined that the principal components of the indicated distillates are the aromatic hydrocarbons and sulfur combinations,

Card 1/2

15-57-1-844

The Chemical Nature of High-Molecular Components (Cont.)

constituting in all no less than 50 percent, and amounting to as much as 97 percent. The aromatic hydrocarbons are generally more abundant than the sulfur combinations. The authors believe that the investigated oil is rich in natural sources of organic sulfur combinations. They present a series of graphs and tables of their analyses.

V. P. K. Card 2/2

SERGIYENKO, S.R.; CHAYKO, V.P.; RUMYANTSEVA, Z.A.

Study of the petroleum high molecular weight compounds. Article
6: Composition and properties of the tarry portion of KzylTumshukskiy petroleum. Trudy Inst.neft. 8:52-59 '56.

(Kzyl-Tumshukskiy--Petroleum--Analysis)
(High molecular weight compounds)

RUMYANTSEVA, Z.A.: VALIULINA, F.W.

Chemical nature of components of high molecular weight of highly sulfurous petroleum. Report no. 2. Analyzing the components of Khaudag petroleum. Izv. Otd. est. nauk AN Tadzh. SSR no.16:15-28 '56. (NLRA 10:4)

1. Institut khimii AN Tadzhikskoy SSR. (Khaudag -- Petroleum -- Analysis)

RUMYANTSEVA, Z.A.; NUMANOV, I.U.

Chemical study of coals and petroleums of Tajikistan. Izv. Utd.
est. nauk AN Tadzh. SSR no. 24:11-20 '57. (MIRA 11:10)

1. Institut khimii AN Tadshikakoy SSR.
(Tajikistan--Coal--Analysis)

(Tajikistan--Petroleum--Analysis)

RUMTANTSEVA, Z.A.; MAMATEVA, A.M.

Some data on coal from the Kurtekin deposit. Dokl.AN Tadzh.
SSR 2 no.4:19-21 '59. (MIRA 13:4)

1. Institut khimii AN Tadzhikskoy SSR. Predstavleno akademikom
AN Tadzhikskoy SSR A.P.Nedzvetskim.
(Pamirs—Coal)

KARAVAYEV, N. M. (Moskva); VENER, R. A. (Moskva); RUMYANTSEVA, Z. A. (Moskva); SHEVCHENKO, B. I. (Moskva); MAMAYEVA, A. M. (Moskva)

Effect of slow heating by ancient intrastratal fires on the composition and properties of Fan Yagnob coal. Izv. AN SSSR. otto. (MIRA 16:1)

(Tajikistan—Coal geology) (Coal—Testing)

H MARINE

	EVA, Z., kand.ekonom Improving busiress av. 12 no.11:27-	accounting	in operational lines-Accounti	subunits. Grazhd. (MIRA 15:9)	
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MIXITIN, Vasilly Ivanovich; EUMYANTSEVA, Z.A., otv.red.; VINOGRADSKAYA, S.N., red.izd-va; GELLER, S.P., tokhn.red.

[Tertiary glycerols of the acetylenic and ethylenic series and their transformations] Tretichnye gliterariny atsetilenovogo i otilenovogo riadov i ikh khimicheskie prevrashcheniia.

Dushanbe, Izd-vo Akad.nauk Tadzhikskoi SSR, 1961. 257 p. (Akademiia nauk Tadzhikskoi SSR, Dushanbe. Institut khimii.

Trwiy, vol.4).

(Glycerol) (Acetylene compounds) (Ethylene compounds)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

KARAVAYEV, N.M.; RUMYANTSEVA, Z.A.; VALIULINA, F.M.; BURYAKOVA, E.P.

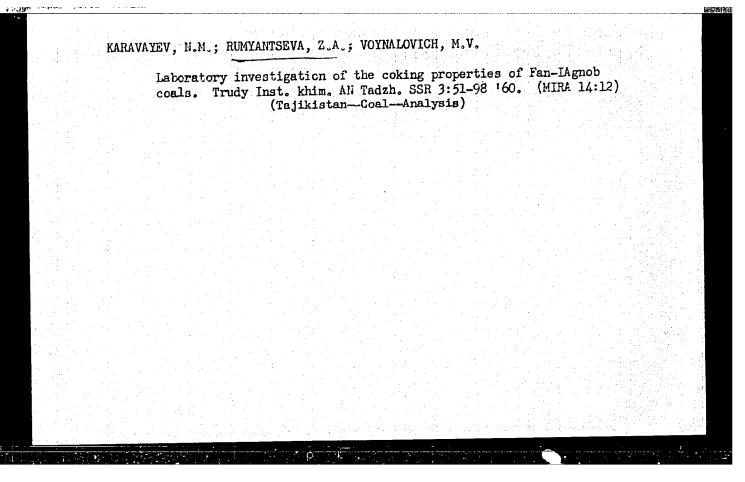
Semicoking of slightly caking and noncaking coal of the Fan-Yagnob deposit. Izv. Otd. est. nauk AN Tadzh. SSR no.3:27-38 159. (MIRA 15:5)

1. Institut khimii AN Tadzhikskoy SSR. (Ayni District—Coal—Carbonization)

KARAVAYEV, N.M.; RUMYANTSEVA, Z.A.; VOYNALOVICH, M.V.; REYMAN, I.V.

Chemical nature and properties of Kshtut-Zauran coals. Trudy
Inst. khim. AN Tadzh, SSR 3:147-182 '60. (MIRA 14:12)

(Tajikistan-Coal-Analysis)



KARAVAYEV, N.M.; RUHYANTSEVA, Z.A.; SHEVCHENKO, B.I.; MAMAYEVA, A.M.

Chemical and retrographic composition and properties of the Fan-IAgnob coals and their relation with the initial conditions of accumulation and transformation of vegetable material.

Report No. 1: Changes in the chemical and petrographic composition and properties of the Fan-IAgnob coals in connection with the strike of strata from the west to the east. Trudy Inst. khim.

AN Tadzh. SSh 3:5-22 '60. (MIRA 14:12)

(Tajikistan-Coal geology)

KARABAYEV, N.M.; RUMYANTSEVA, Z.A.; BURYAKOVA, E.P.

Chemical composition of primary tar of caking coal from the Fan-Yagnob deposit. Izv. Otd. geol.-khim. i tekh. nauk AN Tadzh. SSR no.2:23-33 '61. (MIRA 15:1)

1. Institut khimii AN Tadzhikskoy SSR.
(Tajikistan--Coal tar)

AL'PEROVICH, L.I.; FOMETUN, Ye.A.; RUMYANTSEVA, Z.A.; CHAYKO, V.P.

Luminescent agents in petroleum. Uch.zap.Tadzh.un. 18:88-94 '58.

(Luminescent substances) (Petroleum)

S/200/62/000/009/001/001 D204/D307

AUTHORS:

Nikolayev, A.V., Rumyantseva, Z.G. and Levin, B.V.

TITIE:

The utilization of salicylic acid for the purifica-

tion and separation of thorium

PERIODICAL:

Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya,

no. 9, 1962, 39-45

The extraction of Th as the salicylate from solutions containing other ions was studied to collect information regarding the degree of purification of Th attainable by this method. Th could be quantitatively precipitated in the presence of Al, Ca, Mg, Mm, Pb, Mi, Cn and Cr, by salicylic acid, and without any coprecipitation of these elements. Ferric salicylate was however found to coprecipitate. At pH 4-5, addition of solid salicylic acid (A) to a solution containing 125 g U, 2.5 g Th, 0.25 g each of Mm, Pb, Mi, Cu, Mg and Cr, 1.0 g Al, 4.0 g Fe and 2.5 g Ca per liter resulted in a quantitative precipitation of Th and of Fe<sup>3+</sup> salicylates. Fure Th salicylate could be obtained from a correspon-

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The utilization of salicylic acid ...

S/200/62/000/009/001/001 D204/D307

ding but Fe-free solution. Th could similarly be quantitatively separated from La, but only below pH 4 ( $\sim$  3.8). The recommended procedure for a quantitative separation of Th from U consists of dissolving the salts in HNO3 or HCl, adjusting the pH to 3, boiling, adding 5 g of A per g of Th, boiling for a further 3-5 min, allowing the ppt to settle, adjusting the pH to 5, filtering in the hot, washing 5-6 times with hot aq.A, and igniting the salicylate to ThO2. The salicylate dissolves in ether containing A, to an extent increasing with the A content in the other, reaching 2.46% Th in ether containing 30% A (at 25°C). This may be utilized for the quantitative separation of equal amounts of Th and U, by extracting the precipitated Th salicylate with 20% ethereal A (without prior filtration) from a solution at pH 4-5. Similar separations were achieved from Zr95, Cs137, and Ru103. Th salicylate may also be extracted with acetone (from aqueous solutions saturated with  $\text{CaC1}_2$  to promote the formation of 2 layers), with quantitative separation from U, La and mesothorium I and II. Radiochemically pure Th<sup>232</sup> was obtained by this method. There are 12 tables.

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S/200/62/000/009/001/001 D204/D307

The utilization of salicylic acid ...

ASSOCIATION:

Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk (Institute of Inorganic Chemistry of the Siberian Branch of the AS USSR, Novosibirsk)

SUBMITTED:

December 19, 1961

Card 3/3

CIA-RDP86-00513R001446030002-1" APPROVED FOR RELEASE: 08/22/2000

SOV/78-4-7-39/44 5(2), 21(0) Nikolayev, A. V., Kurnakova, A. G., Rumyantseva, Z. G. AUTHORS:

Some Data on the Chemistry of Protactinium (Nekotoryye dannyye TITLE:

po khimii protaktiniya)

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7, PERIODICAL:

pp 1682-1686 (USSR)

The work carried out by the authors developed simultaneously ABSTRACT:

with similar investigations carried out in foreign countries, so that parts of it have already been published elsewhere (Refs 1-3). In the present article results hitherto not published are given. The protactinium Pa233 was obtained by irradiation (20 h) of solid thorium nitrate. Its half-life was about 27 days. An investigation was carried out of the coprecipitation of Pa by thorium precipitates, by MnO(OH),

Fe(OH)3, and other carriers, as well as of the behavior of Pa during extraction. Table 1 gives the data of the co-precipitation of Pa 233 with thorium- and calcium precipitates (thorium oxy-

carbonate, - hydroxide, -peroxide, - oxalate, - iodate, -chromate, -salicylate, -fluoride, potassium-thorium sulfate, Card 1/3

CIA-RDP86-00513R001446030002-1"

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sov/78-4-7-39/44

Some Data on the Chemistry of Protactinium

calcium oxalate and calcium carbonate). Thorium fluoride takes no Pa into the precipitate as shown by table 2. All precipitates mentioned are soluble in ammonium carbonate, where the entire activity of the Pa is dissolved. The method of "similar carriers" was used for the purpose of separating Pa from Th. It is based upon the precipitation of calcium oxalate of -carbonate from solutions of thorium bioxalate or -bicarbonate, i.e. on the reaction with the same anion. This method is applicable a so to other active nuclei (e.g. splinter nuclei) The co-precipitation of Pa by manganese dioxide was already published in reference 1. Table 3 shows the results obtained by the authors. It shows that in the case of a single precipitation it is worth while to increase the quantity of the carrier substance to 5 mg/ml. In the case of a double precipitation 1 mg/ml will be sufficient. 2-3% of the Pa are not co-precipitated. Precipitation, however, becomes much more complete if initial intensity is increased. Table 4 shows the filling results obtained in the case of a primary activity of 1.06.108 imp/min as against 106 imp/min shown in table 3. By using the complex formation with salicylic acid an extraction

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SOY/78-4-7-39/44

Some Data on the Chemistry of Protactinium-

method was worked out. Extraction is carried out with acetone, and the acetone- and water phases are separated into component parts by means of a saturated CaCl<sub>2</sub>-solution. A quantitative extraction with Th is carried out. By this method it is possible to extract also U(VI) and Pu(IV) and all 4-, 5-, and 6-valent elements. There are 4 tables and 3 references, 2 of which are Soviet.

SUBMITTED:

February 11, 1958

Card 3/3

5/186/61/003/003/018/018 E071/E435

AUTHORS:

Nikolayev, A.V., Tikhomirov, V.I., Rumyantseva, Z.G.

and Levin, B.V.

TITLE:

Entrapment of Alkali Cations by Uranium Peroxide

Precipitates

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.3, pp.372-373

The authors investigated the entrapment of some cations of TEXT: alkali metals during precipitation of uranium peroxide from uranyl sulphate solutions at 50 to 60°C with a large excess of hydrogen peroxide. The concentration of the starting solution was 20 g/1, pH = 2; of the final solution pH = 1. For the determination of sodium entrapment Na24 was used. The results obtained indicate that within the range investigated (0.01 to 0.02 M) the concentration of sodium in the starting solution has little influence on its entrapment in the precipitate (0.01 to 0.009% of the sodium present in the solution). For the determination of cesium its radioactive isotope was used (with and without a carrier). The experimental results indicate that: (a) entrapment of cesium by the peroxide precipitate is hundreds of times higher

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Entrapment of Alkali Cations ...

5/186/61/003/003/018/018 E071/E435

than that of sodium and undoubtedly can not be explained by the adsorption mechanism; (b) similarly to sodium, the percent entrapped is independent of concentration. According to the literature, potassium is also entrapped in uranium peroxide precipitates. Therefore, it can be assumed that the increase in the degree of entrapment increases with increasing ionic radius, or with the strength of the corresponding formations in the precipitate. There are 2 tables and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English language publication reads as follows: G.W.Watt, S.L.Achorn, I.L.Marley, J.Am. Chem. Soc., 72, 8, 3341 (1950).

SUBMITTED: May 24, 1960

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446030002-1"

BR

ACCESSION NR: AP4042337

5/0138/64/000/007/0007/0010

AUTHOR: Rumyantseva, Z. M., Golitsina, A. A., Farberov, M. A., Epshteyn, V. G., Lazaryants, E. G., Yemel'yanov, D. P., Kosmodem'yanskiy, L. V.

TITLE: Synthesis and use of butadiene methacrolein latexes

SOURCE: Kauchuk i rezina, no. 7, 1964, 7-10

TOPIC TAGS: tire manufacture, tire cord saturation compound, saturated cord bond strength, latex containing saturation compound, latex SKMA-3, butadiene methacrolein latex, aldehyde group content, polymerization process, latex synthesis, rubber SKS-30 AM, rubber NK, synthetic rubber, SBR rubber

ABSTRACT: Latexes were synthesized by copolymerization of butadiene and methacrolein at 5C in acid (pH 2.5-3.0) and alkaline (pH 10.0-10.5) media, with methacrolein in the initial emulsion varying from 1 to 30 parts by weight (recipes given). Conversion levels of 70% were attained and the kinetics of the process are described in detail. Compounds of the synthesized latexes with resorcinol-formaldehyde (RF) or glycol-resorcinol formaldehyde (FR-12) resins (12 parts by weight of resin per 100 parts of polymer) were used to saturate tire cords. The cords were then tested by multiple deformation, static peeling and N methods for the strength of Liefr bond to resins from NK, SKB and SKS-30

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#### ACCESSION NR: AP4042337

AM rubbers. It was found that bond strength depends on the content of aldehyde groups in the latex and was best for a monomer mixture with 20% methacrolein by weight. Polymerization at 5C, a conversion level of 70%, Defo hardness levels of 1500 to 3000 g and the use of a rosin soap as an emulsifier promoted bond strength. Comparative evaluation of the synthesized latex, named SKMA-3, indicated it to be superior in bond strength over compounds based on carboxyl containing and vinyl pyridine latexes. Orig. art. has: 4 tables and 2 graphs.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka (Scientific Research Institute for Synthetic Rubber Monomers); Yaroslavskiy tekhnologicheskiy institut (Yaroslav Technological Institute); Yaroslavskiy shinny\*y zavod (Yaroslav Tire Factory)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 010

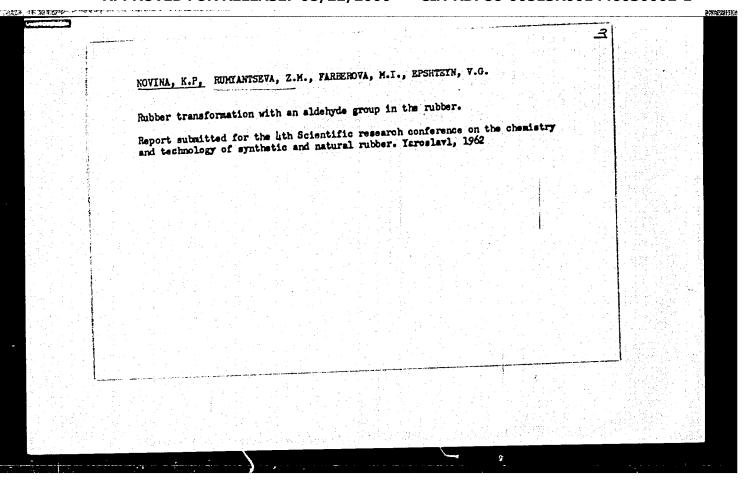
OTHER: 003

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RUMYANTSEVA, Z.M.; GOLITSINA, A.A.; FARBEROV, M.A.; EPSHTEYN, V.G.;
LAZARYANTS, E.G.; YEMEL'YANOV, D.P.; KOSMODEM'YANSKIY, L.V.

Synthesis and use of butadiene-methacroleinic latexes, Kauch.
i rez. 23 no.7:7-10 J1 '64. (MIRA 17:8)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka, Yaroslavskiy tekhnologicheskiy institut i Yaroslavskiy shinnyy zavod.



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SAVCHENKO, Ye.V., tekhn.red.

[Mathematical methods of economic calculations Matematicheskie metody ekonomicheskikh raschetov. Matematicheskie "Znanie," 1961.
31 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.3. Ekonomika, no.5).

(MIRA 14:3)

(Economics, Mathematical) (Programming (Mathematics))